



भारत का राजपत्र

The Gazette of India

प्राधिकार से प्रकाशित

PUBLISHED BY AUTHORITY

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1187 89

सं० 10] नई दिल्ली, शनिवार, मार्च 11, 1989 (फाल्गुन 20, 1910)

No. 10] NEW DELHI, SATURDAY, MARCH 11, 1989 (PHALGUNA 20, 1910)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके।
 (Separate paging is given to this Part in order that it may be filed as a separate compilation)

भाग III—खण्ड 2

[PART III--SECTION 2]

पेटेन्ट कार्यालय द्वारा जारी की गई पेटेन्टों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस

{Notifications and Notices issued by the Patent Office relating to Patents and Designs)

THE PATENT OFFICE
PATENTS AND DESIGNS

Calcutta, the 11th March 1989

ADDRESS AND JURISDICTION OF OFFICES OF THE
PATENT OFFICE

The Patent Office has its Head Office at Calcutta and Branch Offices at Bombay, Delhi and Madras having territorial jurisdiction on a zonal basis as shown below:—

Patent Office Branch,
Todi Estates, 3rd Floor, Lower Park (West),
Bombay-400 013.

Telegraphic address "PATOFFICE".

The States of Gujarat, Maharashtra and Madhya Pradesh, and the Union Territories of Goa, Daman and Diu and Dadra and Nagar Haveli.

Patent Office Branch,
Unit No. 401 to 405, III Floor,
Municipal Market Building,
Saraswati Marg, Karol Bagh,
New Delhi-110 005.

Telegraphic address "PATENTOFIC".

The States of Haryana, Himachal Pradesh, Jammu and Kashmir, Punjab, Rajasthan and Uttar Pradesh and the Union Territories of Chandigarh and Delhi.

Patent Office Branch,
61, Wallajah Road,
Madras-600 002.

Telegraphic address "PATENTOFIS".

The States of Andhra Pradesh, Karnataka, Kerala, Tamilnadu, and the Union Territories of Pondicherry, Laccadive, Minicoy and Amindivi Islands.

Patent Office, (Head Office),
"NIZAM PALACE", 2nd M.S.O. Building,
5th, 6th and 7th Floor,
234/4, Acharya Jagadish Bose Road,
Calcutta-700 020.

Telegraphic address "PATENTS".

Rest of India.

All applications, notices, statements or other documents or any fees required by the Patents Act, 1970 or the Patents Rules, 1972 will be received only at the appropriate Offices of the Patent Office.

Fees:—The fees may either be paid in cash or may be sent by Money Order or Postal Order, payable to the Controller at the appropriate Offices or by bank draft or cheque, payable to the Controller drawn on a scheduled bank at the place where the appropriate office is situated.

APPLICATIONS FOR PATENTS FILED AT THE HEAD OFFICE 234/4, ACHARYA JAGADISH BOSE ROAD, CALCUTTA-20

The dates shown in the crescent brackets are the dates claimed under Section 135, of the Patents Act, 1970.

The 3rd February, 1989

- 106/Cal/89. Westinghouse Electric Corporation. Improvements in or relating to flowmeter controller for an air leakage monitoring system.

The 6th February, 1989

- 107/Cal/89. Anirban Majumdar and Sabita Majumdar. Spiked type discharge electrode for electro static precipitators.

- 108/Cal/89. Emitec Gesellschaft fur Emissionstechnologie Mbh. Assembled drive shaft.

The 7th February, 1989

- 109/Cal/89. E. I. Du Pont De Nemours and Company. Gas-Phase Fluorination process.

- 110/Cal/89. Mec AS. Method of producing an electric electronic component. A method of producing a key and a key.

- 111/Cal/89. Aisa Automation Industrielle S.A. Process and apparatus for the manufacture of pressed object or article of thermoplastic synthetic material.

APPLICATIONS FOR PATENTS FILED AT THE PATENT OFFICE BRANCH, MUNICIPAL MARKET BUILDING, 3RD FLOOR, KAROL BAGH, NEW DELHI-110005

The 9th January, 1989

- 16/Del/89. Imperial Chemical Industries PLC., "Apparatus for producing a secondary reformed hydrocarbon gas stream". (Convention date 6th June, 1985) (U.K.) & [Divisional date 3rd June, 1986].

- 17/Del/89. Imperial Chemical Industries PLC., "A process for the production of a secondary reformed hydrocarbon gas stream containing hydrogen steam". (Convention date 6th June, 1985) & [Divisional date 3rd June, 1986].

- 18/Del/89. Ganga Sharan Sharma. "An improved domestic water cooler".

The 10th January, 1989

- 19/Del/89. TKAC & TIMM Enterprises Ltd., "Process for use in flour milling". (Convention date 16th December, 1988) (Canada).

- 20/Del/89. Imperial Chemical Industries PLC., "Composite particle dispersions". (Convention date 29-1-88 & 27-9-88) (U.K.).

- 21/Del/89. Gosudarstvenny Nauchno Issledovatelsky Institut Khimii I Tekhnologii Elementoorganicheskikh Soedineniy "GnikhtEOF", "Method of preparing granulated peroxycompounds".

The 11th January, 1989

- 22/Del/89. Sandvik Rock Tools, Inc. "Elliptical thread design".

- 23/Del/89. Vitalink Communications Corporation. "Distributed load sharing".

The 12th January 1989

- 24/Del/89. Prabhat Kumar. "An automobile window screen".

- 25/Del/89. Maschinenfabrik Sulzer-Burkhardt AG, "A valve set for a reciprocating compressor".

- 26/Del/89. Maschinenfabrik Sulzer-Burkhardt AG, "A valve set for a reciprocating compressor".

The 13th January, 1989

- 27/Del/89. Joginder Singh Kang, "Kang energy producing without perennial expense system".

- 28/Del 89. Dresser Industries, Inc, "Impact resistant pressure relief Valve".

The 16th January, 1989

- 29/Del/89. National Research Development Corporation & Shri A. M. M. Murugappa Chettiar Research Centre, "An improved process for the production of dried algal biomass from spirulina".

- 30/Del/89. Ajendra Kumar Mittal. "A modified paddle mechanism to convert linear motion due to force applied alternately on two paddles, into unidirectional circular motion".

- 31/Del/89. Bharat Heavy Electricals, Ltd. "Development and manufacture of special babbitt based on tin antimony for heavy duty bearing liners application".

- 32/Del/89. Biolandes. "Method of extracting solid materials using a solvent and an apparatus for implementing same".

The 17th January, 1989

- 33/Del/89. Prabhat Kumar. "Separation of particulate matter and stream from carrier medium".

- 34/Del/89. Salplex Ltd., "Information handling and control systems". (Convention date 10th February, 1988) (U.K.).

- 35/Del/89. Centre Scientifique Et Technique Du Batiment, "Magnesium cements comprising a partially Dehydrated Magnesium salt and a very reactive magnesium binders with accelerated setting and improved water resistance, obtained from such cements, and non-expanded or expanded material obtained with such a magnesium binder".

- 36/Del/89. General Foods Corporation, "Method for decaffeinating coffee with a supercritical fluid".

The 18th January, 1989

- 37/Del/89. Ranbaxy Laboratories Ltd., "Process for the production of α -6-deoxytetracyclines".

- 38/Del/89. Council of Scientific & Industrial Research, "Process for electrochemical synthesis of high Tc organic superconductor (268 k)".

- 39/Del/89. John David Yair, "Container". (Convention 20-1-1988) (U.K.).

- 40/Del/89. Lonza Inc, "Synergistic biocidal composition".

- 41/Del/89. Union Rheinische Braunkohlen Kraftstoff AG, "Improved process for controlling corrosion of pipes and device for determination of corrosion of pipes".

- 42/Del/89. The Lubrizol Corporation, "A process for preparing a high molecular weight additive/dispersant". [Divisional date 28th February, 1986].

The 19th January, 1989

- 43/Del/89. Techniport S.A., "A method of producing mechanical joints and the joints produced by the method".

- 44/Del/89. General Tire, Inc, "Method and apparatus for correcting and buffing tires".

- 45/Del/89. Westinghouse Brake and Signal Holdings Ltd., "Spring-applied brake actuator". (Convention date 27th January, 88) (U.K.).

- 46/Del/89. Westinghouse Brake and Signal Holdings Ltd., "Tread brake unit". (Convention date 27-1-88) (U.K.).

47/Del/89. Westinghouse Brake and Signal Holdings Ltd., "Slack adjuster". (Convention date 27-1-88 & 28-6-88) (U.K.).

48.Dcl/89. The Lubrizol Corporation. "Fuel composition".

49/Del/89. Robert Tuilman, "Variable volume container".

The 20th January, 1989

50/Dcl/89. Manoharlal, "A new frequency independent antenna".

51/Dcl/89. Industrial Management Co., "Method and apparatus for producing conductivity in materials".

52/Dcl/89. Delsey, "Locking device using a rocking and slideable lever, particularly for closing suitcases".

53/Dcl/89. Delsey, "Rigid or semi-rigid suitcase made of plastic material".

54/Del/89. Alcan International Ltd., "Aluminium batteries". (Convention date 26th January, 1988) (U.K.).

APPLICATIONS FOR PATENTS FILED IN THE PATENT OFFICE BRANCH AT TODI ESTATES, 3RD FLOOR, SUNMILL COMPOUND, LOWER PAREL (W), BOMBAY-13

The 23rd January, 1989

20/Bom/89. Alrif Mohamed Taher. A hydraulic type horizontal spindle surface grinding machine with extra attachment of vertical spindle.

21/Bom/89. Deoram Khaduji Thorat. An improved coupling for aligned shafts.

The 25th January, 1989

22/Bom/89. Crompton Greaves Ltd. An improved method of bright annealing of soft iron magnetic material components.

The 27th January, 1989

23/Bom/89. Dr. Omprakash Shrivastava, Dr. N. Uvarov and Dr. E. Hairetidinov. Low cost material for solid stage gas detection for SO_2/SO_3 workable at comparatively low temperatures.

APPLICATIONS FOR PATENTS FILED IN THE PATENT OFFICE BRANCH, 61, WALLAJAH ROAD, MADRAS-600002

The 23rd January, 1989

54/Mas/89. Pariyapurath Bhaskaran Dhanish. A rotating roller supported deep hole machining tool.

55/Mas/89. Dunimar S.r.l. A novel and improved method of producing solid-liquid mixtures with a high concentration of solids.

56/Mas/89. Separation Dynamics Inc. Fuel Delivery System. (October 7, 1988; Canada).

57/Mas/89. Minnesota Mining and Manufacturing Company. Method for manufacturing an amorphous silicon thin film solar cell and schottky barrier diode on a common substrate.

58/Mas/88. Stamicarbon B.V. Process for the preparation of urea.

59/Mas/89. Stamicarbon B. V. Process for concentrating a urea solution.

The 24th January, 1989

60/Mas/89. Bachahalli Anantharamiah Vijaya Krishna Sharma. Manufacture of potassium silicate by using potassium hydroxide lye.

61/Mas/89. Bachahalli Anantharamiah Vijaya Krishna Sharma. Manufacture of precipitated silica from silica containing minerals.

62/Mas/89. Foseco International Limited. Apparatus and method for treating molten metal. (November 29, 1984; United Kingdom). (Divisional to Patent Application No. 892/Mas/85).

63/Mas/89. Morgan, Robert Lewis. Apparatus for harnessing power from a fluid flow. (January 25, 1988; United Kingdom).

64/Mas/89. Ingenier-og Arkitektfirmaet. Method and plant for conveying of bales from a storage to a combustion system. (January 27, 1988; (United Kingdom).

65/Mas/89. Rambin Christian. Spoon or spatula for alimentary use.

The 25th January, 1989

66/Mas/89. TVS-Suzuki Limited. An aerodynamic scoop for air cooled engines of vehicles.

67/Mas/89. TVS-Suzuki Limited. A reed valve for the exhaust port of two stroke I.C. Engines.

68/Mas/89. Novatech Energy Systems Inc. Apparatus for electrically charging liquid droplets for use in the stimulation of plant growth and/or the control of insects. (January 25, 1988; United Kingdom).

69/Mas/89. Institut Francais Du Petrole. A semi-sequential transmission method and system using simultaneously several radio transmission frequencies for connecting a seismic reception assembly to a central control and recording laboratory.

The 27th January, 1989

70/Mas/89. The Dow Chemical Company. Catalysts and epoxy resin composition containing the same.

71/Mas/89. Foseco International Limited. Metallurgical treatment agents. (February, 1988; United Kingdom).

72/Mas/89. The British Petroleum Company p.l.c. Producing semiconductor layers.

73/Mas/89. Merlin Gerin. Solid-state trip device comprising an instantaneous tripping circuit independent from the supply voltage.

74/Mas/89. Mitsui Toatsu Chemicals Inc. Process for producing cyclic urea. (Divisional to Patent Application No. 105/Mas/87).

75/Mas/89. The Dow Chemical Company. Process for the recovery of alkanolamines from their heatstable salts formed in alkanolamine sorbent solutions.

OPPOSITION PROCEEDINGS

(1)

An opposition has been entered by M/s Widia (India) Limited to the grant of a Patent on application No. 163167 (326/Dcl/85) dated the 18th April, 1985 made by The Warner & Swasey Company, U.S.A.

(2)

The opposition entered by M/s. Honda Giken Kogyo Kabushiki Kaisha, Japan to the grant of a Patent on the application for Patent No. 158037 made by M/s. Bajaj Auto Ltd., Pune as notified in the Gazette of India, Part-III, Section 2 dated the 21st March, 1987 has been allowed and the grant of a patent on the application refused. There is another opposition to the same application for patent still pending the opponent being M/s. Piaggio & CSPA Italy.

CLAIM UNDER SECTION 20(1) OF THE PATENTS ACT 1970

In pursuance of leave granted under section 20(1) of the Patents Act, 1970, the application for Patent No. 157065 has been allowed to proceed in the name of VOLEX GROUP PLC.

PATENTS SEALED

CALCUTTA

152423	154467	159169	162362	162481	162664	162824
162901	162904	162905	162907	162908	162909	162921
162942	162943	162944	162947	162948	162949	162950
162961	162965	162967	162968	162970	163022	163023
163024						

MADRAS

161652	161960	162393	162607	162766	162983	162984
162985	162986	162987	162988			

DELHI

157065	162507	162852	162893	162959
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BOMBAY

162470	163039
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REGISTRATION OF ASSIGNMENTS, LICENCES ETC. (PATENTS)

Assignments, Licences or other transactions effecting the interest of the original Patentee have been registered in the following cases. The numbers of the each case is followed by the names of the parties claiming interests.

155874	— Lombardini Fabbrica Italiana Motari S.P.A.
144408	— Sanko Gas Chemical Co. Ltd.
156434	— Enichem Sintesi S.P.A.
157981	— Labofina S.A.
150765	— Exol Inc.
153539	— Britannia Engineering Products & Services Limited.
153499	— Wedco Inc.
150161	— Enichem Elastomeri S.P.A.
154151	— Foster Wheeler Power Products Ltd.
154151	— Indage Engineering Pvt. Ltd.
151480	— Lakshmi Machine Works Ltd.
152373	
151767	

AMENDMENT UNDER SECTION 78

In the Complete Specification No. 155952 the Claim 10 to 12 deleted and Claim 13 renumbered as Claim 10.

AMENDMENTS PROCEEDINGS UNDER SECTION 57

Notice is hereby given that Gunther S.A. of 55 rue de la papeterie, 70800 Fontaine-les Luxeuil, France, a French Company has made an application on Form 29 under section 57 of The Patents Act, 1970 for amendment of specification of their application for Patent No. 158070 (283/D/82) for A Frustoconical Support Element. The amendments are by way of correction & explanation in order to ascertain the invention better. The application for amendment and the proposed amendments can be inspected free of charge at the Patent Office Branch, Unit No. 401 to 405, 3rd Floor, Municipal Market Building, Saraswati Marg, Karol Bagh, New Delhi-110 005 or copies of the same can be had on payment of usual copying charges.

Any person interested in opposing the application for amendment may file a notice of opposition in Form 30 within three months from the date of this notification at Patent Office Branch, Unit No. 401 to 405, 3rd Floor, Municipal Market Building, Saraswati Marg, Karol Bagh, New Delhi-110 005. If the written Statement of Opposition is not filed with the notice of opposition it shall be left within one month from the date of filing the said notice.

AMENDMENT TO SPECIFICATION NO. 162393

In pursuance of leave granted under Section 57 of the Patents Act, 1970, on 11th January, 1989, the Complete Specification has been amended as below :—

Name of the Applicants firm on page 1 of the Complete Specification is to read as BBC BROWN BOVERI LTD.

(1)

AMENDMENT PROCEEDINGS

The amendment proposed by BBC Brown Boveri & Company Limited in respect of Patent Application No. 162393 as advertised in Part III, Section 2, of the Gazette of India, dated the 20th August, 1988, has been allowed.

(2)

The amendment proposed by BBC Brown, Boveri & Company Limited in respect of Patent Application No. 161960 as advertised in Part III, Section 2, of the Gazette of India, dated the 25th June, 1988, has been allowed.

AMENDMENT TO SPECIFICATION NO. 161960

In pursuance of leave granted under Section 57 of the Patents Act, 1970, on 11th January, 1989, the Complete Specification has been amended as below :—

Name of the Applicants' firm on page 1 of the Complete Specification is to read as BBC Brown Boveri Ltd.

AMENDMENT TO SPECIFICATION NO. 161652

In pursuance of leave granted under Section 57 of the Patents Act, 1970, on 11th January, 1989, the Complete Specification has been amended as below :—

Name of the Applicants' firm on page 1 of the Complete Specification is to read as BBC Brown Boveri Ltd.

AMENDMENT PROCEEDINGS

The amendment proposed by BBC Brown, Boveri & Company Limited in respect of Patent Application No. 161652 as advertised in Part III, Section 2, of the Gazette of India, dated the 25th June, 1988 has been allowed.

AMENDMENT TO SPECIFICATION NO. 162697

In pursuance of leave granted on 11th day of January, 1989, under Section 57 of the Patents Act, 1970, the Complete Specification has been amended as follows:—

In the printed specification:

Page 1 : line 10 : the name of the Applicant reads
BBC Brown Boveri Ltd.

AMENDMENT PROCEEDINGS

The amendment proposed by BBC Brown Boveri and Company Ltd. in respect of Patent Application No. 162697 as advertised in Part III, Section 2, of the Gazette of India, dated the 10th September, 1988, has been allowed.

RENEWAL FEES PAID

143644	143645	143646	143740	143932	144112	144385
145900	146147	146210	146643	147459	147681	147874
148259	148866	149844	150078	150156	150639	150999
151070	151071	151203	151258	151514	152024	152087
152088	152123	152141	152153	152478	152482	152483
152595	152670	152780	152785	152790	152899	153034
153115	153420	153502	153570	153581	153582	153679
153686	153857	153897	154060	154098	154102	154521
154697	154819	154949	154993	155070	155189	155210
155288	155337	155359	155388	155392	155623	155669
155691	156069	156268	156399	156662	156693	156722
156928	157052	157397	157444	157492	157493	157501
157520	157638	157840	158071	158142	158146	158241
158614	158808	158981	158983	159000	159020	159173
159498	159595	159609	159726	159731	159732	159828
159886	160042	160045	160050	160051	160052	160092
160150	160172	160530	160575	160665	160684	160742
160751	160798	160812	160846	160886	160890	160891
160901	160904	160906	160907	160910	160944	160945
160946	160947	160949	160951	160955	160959	160961
160975	160977	161053	161057	161058	161131	161132
161133	161138	161155	161156	161157	161203	161204
161205	161211	161213	161214	161220	161238	161261
161271	161321	161395	161411	161412	161471	161551
161610	161611	161628	161663	161668	161716	161719
161779	161827	161828	161851	161853	161880	161901
161915	161918	161972	162021	162108	162213	162309
162484	162615	162657	162661	162717	162744	162745
162748.						

CESSATION OF PATENTS

146823	146824	146825	146827	146828	146831	146832
146834	146836	146837	146838	146839	146840	146841
146842	146843	146845	146846	146847	146852	146853
146855	146856	146857	146958	147061	146862	146863
146864	146865	146867	146868	146870	146872	146873
146874	146875	146876	146883	146885	146886	146887
146892	146894	146895	146902	146905	146906	146908
146910	146915	146917	146918	146919	146920	146921
146923	146924	146926	146927	146928	146929	146930
146934	146935	146938	146939	146941	146947	146949

146953	146955	146958	146959	146961	146962	146963
146965	146970	146977	146978	146979	146980	146981
146983	146984	146985	146989	146990	146992	146997
146998	146999	147000	147001	147003	147008	147009
147011	147012	147015	147016	147018	147021	147023
147025	147026	147028	147029	147030		

RESTORATION PROCEEDINGS

Notice is hereby given that an application for restoration of patent No. 155642 dated the 23-12-81 made by Union Carbide Corporation on the 21-12-87 and notified in the Gazette of India, Part III, Section 2 dated the 18-6-88 has been allowed and the said Patent restored.

REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Design Act, 1911.

The date shown in the each entry is the date of registration of the design included in the entry.

Class 1.	Nos. 159977 to 159980. ONESEAL A/S, A Danish Company of Maglebjergvej 13-15, DK-2800 Lyngby, Denmark. a "LOCK-PIN". 26th July, 1988.
Class 1.	No. 160032. Chandra Singh Lakhman Singh, an Indian Citizen carrying on business as sole Proprietor of M/s. Navtan Brass Industries having their office at Oswal Ice Factory Company, Ranjit Sagar Road, Jamnagar, Gujarat, India. "Safety Razor". 17th August, 1988.
Class 1.	No. 160522. Meera Metal Industries, (a registered partnership firm) at Mahavir Metal Industries Compound, 2nd floor, Opp. R. K. Studio, Sion Tronibay Road, Chembur, Bombay-400 071, State of Maharashtra, India. "Pan". 6th December, 1988.
Class 3.	No. 159443. M/s. Parasales (India) Regd., B-24/2 Wazirpur Industrial Area Delhi-52 India and Indian Partnership firm. "Lunch Box". 29th February, 1988.
Class 3.	No. 159876. Tuomo Halonen, of PL 39, 37800 Toijala, Finland. "Non-Collapsible Pouch". 23rd June, 1988.
Class 3.	No. 159982. Eagle Flask Industries Pvt. Ltd., an Indian Company, at Eagle Estate, Talegaon, 410 507, District-Pune, Maharashtra, India. "Jug". 27 July, 1988.
Class 3.	Nos. 159983 & 159984. Eagle Flasek Industries Pvt. Ltd., an Indian Company, at Eagle Estate, Talegaon 410 507, District-Pune, State of Maharashtra, India. "Flask". 27th July, 1988.
Class 3.	No. 160110. Prem Nath Gupta, trading as S. Tosh & Co., Indian, of 14/2 Old China Bazar Street, Calcutta 700001, West Bengal, India, "Containers". 13th September, 1988.
Class 3.	No. 160123. M/s. Arise Pharmaceuticals, Krishna Cottage Co. op. Housing Society, Room No. 1st floor, Dattapada Cross Road No. 2, Borivili (East), Bombay-66, State of Maharashtra, India, an Indian Partnership firm. "Inhaler". 16th September, 1988.

Class 3. No. 160125. Eagle Flask Industries Private Limited, (an Indian Company) at Eagle Estate, Talegaon 410 507, District-Pune, State of Maharashtra, India. "Vacuum Flask". 19th September, 1988.

Class 3. No. 160174. Gala Brush Industries, (a registered Partnership firm) at 186 Narsi Natha Street, Bhat Bazar, Bombay-400 009, State of Maharashtra, India. "Brush". 20th September, 1988.

Class 3. No. 160295. Crystal Plastics & Metallizing Private Limited, Sanghi House, Palkhi Galli, Off Veer Savarkar Marg, Prabhadevi, Bombay-400025, State of Maharashtra, India, a Private Limited company incorporated under the Indian Companies Act. "Comb". 21st October, 1988.

Class 3. No. 160524. H. V. Industrial Electronics Private Limited, a company incorporated under the Indian Companies Act, 1956, of 223, Vyapar Bhawan, 49, P. D. Mello Road, Near Carnac Bridge, Bombay-400009, State of Maharashtra, India. "Three Pin Top". 7th December, 1988.

Class 4. No. 160023. Kirit Patel, Indian National, of 44 Mint Road, Fort, Bombay 400 001, Maharashtra State, India. "Bottle". 10th August, 1988.

Extn. of Copyright for the Second period of five years.

Nos. 158860, 159662, 158830, 158049, 158471.	Class-1.
Nos. 158232, 158633, 158231, 159142, 159140, 159137, 160021, 157447, 159073, 159284, 159360.	Class-3.
No. 159361.	Class-4.
No. 159135.	Class-10.

Extn. of Copyright for the Third period of five years.

Nos. 158860, 159662, 158830, 158049, 158471.	Class-1.
Nos. 158232, 158633, 158231, 159033, 159032, 159034, 159142, 159140, 159137, 160021, 157447, 159073, 159284, 159360.	Class-3.
No. 159361.	Class-4.
No. 159135.	Class-10.

COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in opposing the grant of patents on any of the applications concerned, may, at any time within four months of the date of this issue or within such further period not exceeding one month applied for on Form 14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months, give notice to the Controller of Patents on the prescribed Form 15, of such opposition. The written statement of opposition should be filed along with the said notice or within one month of its date as prescribed in Rule 36 of the Patents Rules, 1972.

"The classifications given below in respect of each specification are according to Indian Classification and International Classification."

A limited number of printed copies of the specifications listed below will be available for sale from the Government of India Book Depot, 8, Kiran Sankar Roy Road, Calcutta, in due course. The price of each specification is Rs. 2/- (postage extra if sent out of India). Requisition for the supply of the printed specifications should be accompanied by the number of the specifications as shown in the following list.

Typed or photo copies of the specifications together with photo copies of the drawings, if any, can be supplied by the Patent Office, Calcutta on payment of the prescribed copying charges which may be ascertained on application to that office. Photo copying charges may be calculated by adding the number of pages in the specification and drawing sheets mentioned below against each accepted specification and multiplying the same by four to get the charges as the copying charges per page are Rs. 4/-.

Int. Cl. : B 29 C 49/28.

154391

BLOW MOLDING APPARATUS.

Applicant : OWENS-ILLINOIS PLASTIC PRODUCTS INC., A DELAWARE CORPORATION, U. S. A., OF ONE SEAGATE, TOLEDO, OHIO 43666, U. S. A.

Inventor : ROBERT ALAN MYERS.

Application No. 171/Mas/85 filed March 5, 1985.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

11 Claims

1 blow molding apparatus comprising :

a frame;

a wheel plate,

a shaft rotatably mounted on said frame and extending horizontally;

means for supporting said wheel plate on said shaft for rotation with said shaft;

a hub mounted on said shaft for rotation with said shaft;

a plurality of sets of molds defining a mold cavity when closed;

each said set comprising a pair of mold sections;

said hub having circumferentially spaced external surfaces, the number of surfaces corresponding to the number of first mold sections;

one mold section of each set being mounted on a surface of said hub such that said mold sections are circumferentially spaced about said hub;

mold section mounting means removably mounting each said mold section of each said set on said wheel plate in circumferentially spaced relation and radial alignment with each said first-mentioned mold section and for movement toward and away from said first-mentioned mold sections;

a second hub

said first-mentioned hub being removable and a second hub being adapted to be replaced on said shaft,

said second hub having a plurality of circumferentially spaced surfaces for supporting first mold sections, the number of the surfaces of the second hub differing from the number of surfaces of the first hub, said wheel plate having means for accommodating a different number of mold section mounting means

to correspond with the different number of mold surfaces on said hub.

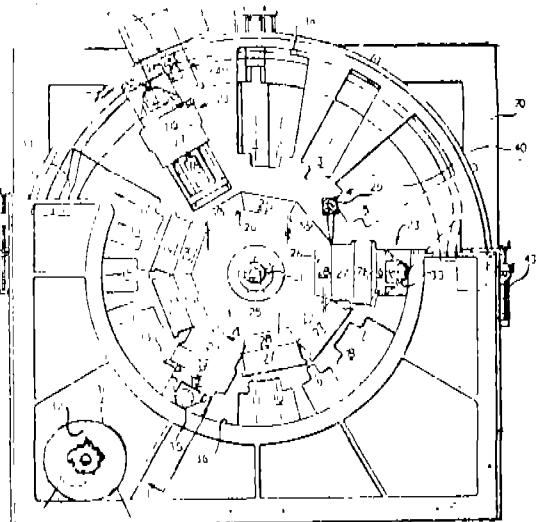
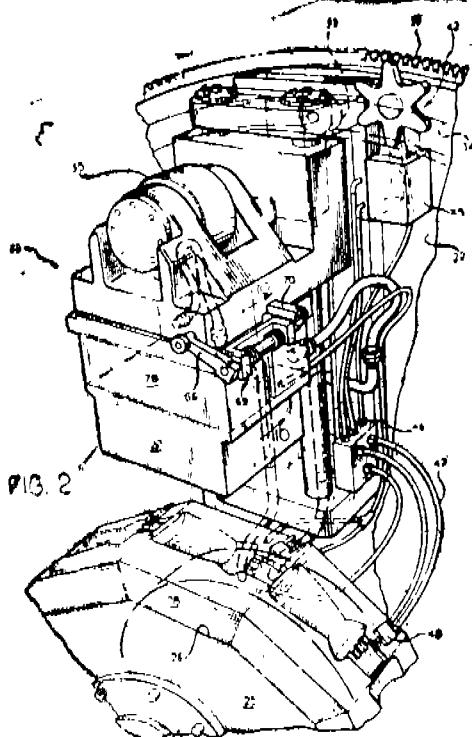


Fig. 1



Compl. specn. 13 pages. Drgs. 3 sheets; each of size 33.00 cms. by 41.00 cms.

Int. Cl. 4 : C 07 C 126/02. 164392

PROCESS FOR THE PREPARATION OF UREA.

Applicant : UNIE VAN KUNSTMESTFABRIEKEN B. OF MALIEBAAN 1/8, 3581 CG Utrecht THE NETHERLAND, A DUTCH COMPANY.

Inventor : K. JONCKERS.

Application No. 178/Mas/85 filed 7 March 1985.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

Compl. specn. 11 pages. Drg. 1 sheet

4 Claims

Process for the preparation of urea in which a carbamate and free ammonia containing urea synthesis solution is formed from carbon-dioxide and excess ammonia in a synthesis zone at a pressure of 125—350 bar, at least a portion of the carbamate present in the urea synthesis solution is decomposed in a stripping zone at the pressure of the synthesis zone or at a lower pressure by heat supply and countercurrent contact with a stripping gas, the carbamate decomposition products, together with a portion of the excess ammonia and the stripping gas, are removed from the stripping zone as a gas mixture, at least a portion of the gas mixture obtained is condensed in a condensation zone and the stripped urea synthesis solution is processed into a urea solution or solid urea, this process being characterized in that the residence time of the reaction mixture in the condensation zone is sufficiently long that from the carbamate formed also at least 30% and up to 80% of the equilibrium amount of urea achievable under the reaction conditions is allowed to form and the carbamate—and urea-containing mixture is supplied to the synthesis zone.

Compl. specn. 11 pages.

Drg. 1 sheet

Int. Cl. 4 : D 01 G 19/22. 164393

CLEANING DEVICE FOR THE PRESSURE ROLLS OF A COMBING MACHINE.

Applicant : MASCHINENFABRIK RIETER AG, A BODY CORPORATE ORGANISED UNDER THE LAWS OF SWITZERLAND, OF CH-8406 WINTERTHUR, SWITZERLAND.

Inventors : HANSURICH EICHENBERGER; LUDWIG LACHER; TITUS SCHMID.

Application No. 179/Mas/85 filed 8 March 1985.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

8 Claims

Cleaning device for the pressure rolls pressed on the detaching roller of a combing machine in which two pressure rolls are located at the same height adjacent each other and above the detaching roller on which they are pressed, characterised in that at least one freely rotatable cleaning roll (19), the said cleaning roll having a smooth outer surface to which fibres do not adhere, the cleaning roll engaging at least one of the pressure rolls (17), whereby the surface of the cleaning roll and those of the pressure roll being such that in operation of the combing machine slipping of the cleaning roll on the pressure roll takes place.

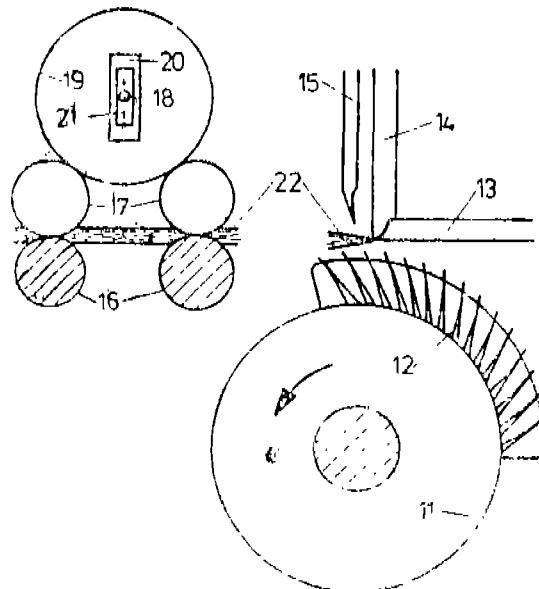


Fig. 1

Int. Cl.⁴ : F 23 D 1/00.

164394

APPARATUS FOR COAL COMBUSTION.

Applicant : BABCOCK-HITACHI KABUSHIKI KAISHA, OF 6-2, OTEMACHI 2-CHOME, CHIYODA-KU, TOKYO, JAPAN, A CORPORATION ORGANIZED UNDER THE LAWS OF JAPAN.

Inventors : (1) SHIGEKI MORITA, (2) TADAHISA MASAI, (3) SHIGETICHI NAKASHITA, (4) TOSHIO UEMURA, (5) FUMIO KODA, (6) TSUYOSHI NAWATA.

Application No. 180/Mas/85 filed March 11, 1985.

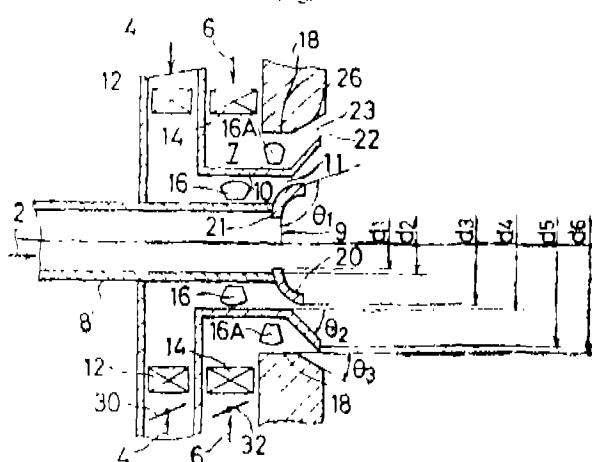
Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

12 Claims

An apparatus for coal combustion which comprises :

- a pulverized coal-feeding pipe (pulverized coal pipe) inserted into a burner throat on the lateral wall of a combustion furnace and for feeding pulverized coal together with air into the combustion furnace;
- a means for feeding pulverized coal and air into the pulverized coal pipe;
- a secondary air passageway formed between the pulverized coal pipe and a secondary air-feeding pipe, said secondary air-feeding pipe being concentric with the pulverized coal pipe and is provided on the outer peripheral side of the pulverized coal pipe;
- a tertiary air passageway formed on the outer periphery side of the secondary air-feeding pipe;
- a means for feeding air or an oxygen-containing gas into said secondary air passageway and that into said tertiary air passageway; and
- into air passageway; and
- a bluff body provided at the burner end of said pulverized coal pipe and encircling and extending said pipe, said bluff body —having essentially the shape of letter L, with first portion of the L perpendicular to and attached to said pulverized coal pipe and second portion parallel to said pulverized coal pipe and attached to and extending said first portion by forming an angle in the range of 90°—150° with said first portion, wherein the inner diameter of said pulverized coal pipe is less than the inner diameter formed by said —second portion of said bluff body.

Fig. 3



Compl. specn. 26 pages

Drgs. 3 sheets

Int. Cl.⁴ : C 07 C 7/00

164395

A PROCESS FOR SEPARATING METHANE FROM A LIQUEFIED GAS BY RECTIFICATION.

Applicant : LINDE AKTIENGESELLSCHAFT, OF ABRAHAM-LINCOLN-STRASSE 21 D-6200 WIESBADEN, FEDERAL REPUBLIC OF GERMANY, A WEST GERMAN COMPANY.

Inventors : (1) HANS BECKER, (2) HERWIG LANDES.

Application No. 194/Mas/85 filed March 15, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

5 Claims

A process for separating methane from a liquefied gas by rectification, comprising vaporizing at least a part of the liquefied gas, superheating the resultant vapor and introducing the resultant superheated vapor into the lower portion of a rectification column, passing the remainder of the liquefied gas in the liquid phase into the upper portion of the rectification column, recovering methane as bottoms and vaporised liquefied gas depleted in methane as overhead gas product.

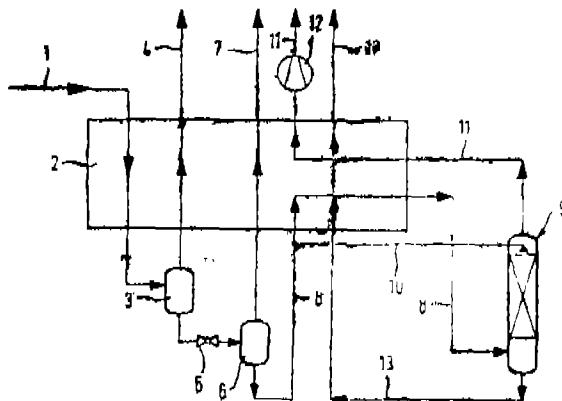


Fig. 1

Compl. specn. 10 pages

Drgs. 1 sheet

Int. Cl.⁴ : C 10 G 47/02

164396

A TWO STAGE, CLOSE-COUPLED PROCESS FOR HYDROPROCESSING A HEAVY HYDRO-CARBONACEOUS FEEDSTOCK.

Applicant : CHEVRON RESEARCH COMPANY, A CORPORATION DULY ORGANISED UNDER THE LAWS OF THE STATE OF DELAWARE, UNITED STATES OF AMERICA, OF 555 MARKET STREET, SAN FRANCISCO, CALIFORNIA, UNITED STATES OF AMERICA.

Inventors : (1) CHRISTOPHER W. KUEHLER AND (2) ARTHUR J. DAHLBERG.

Application No. 208/Mas/85 filed March 20, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

11 Claims

A two stage, close-coupled process for hydroprocessing a heavy hydrocarbonaceous feedstock at least 30 volume per cent of which boils above 1000°F and having greater than 100 parts per million by weight total metal contaminants to produce high yields of transportation fuels boiling below 650°F, which comprises :

- (a) introducing said feedstock and dispersed contact particles such as herein described with a concentration from 0.01 to 10.0 per cent by weight having catalytic activity sufficient to suppress adverse coke formation and demetallizing activity, into a first-stage hydrothermal zone in the presence of hydrogen at a temperature range of between 750°F to 900°F wherein said feedstock and contact particles are introduced into said hydrothermal zone sufficient to substantially demetalate said feedstock and to convert a significant amount of the hydrocarbons in said feedstock boiling above 1000°F to hydrocarbons boiling below 1000°C.

19 Claims

A bicycle-type pedal assembly comprising :

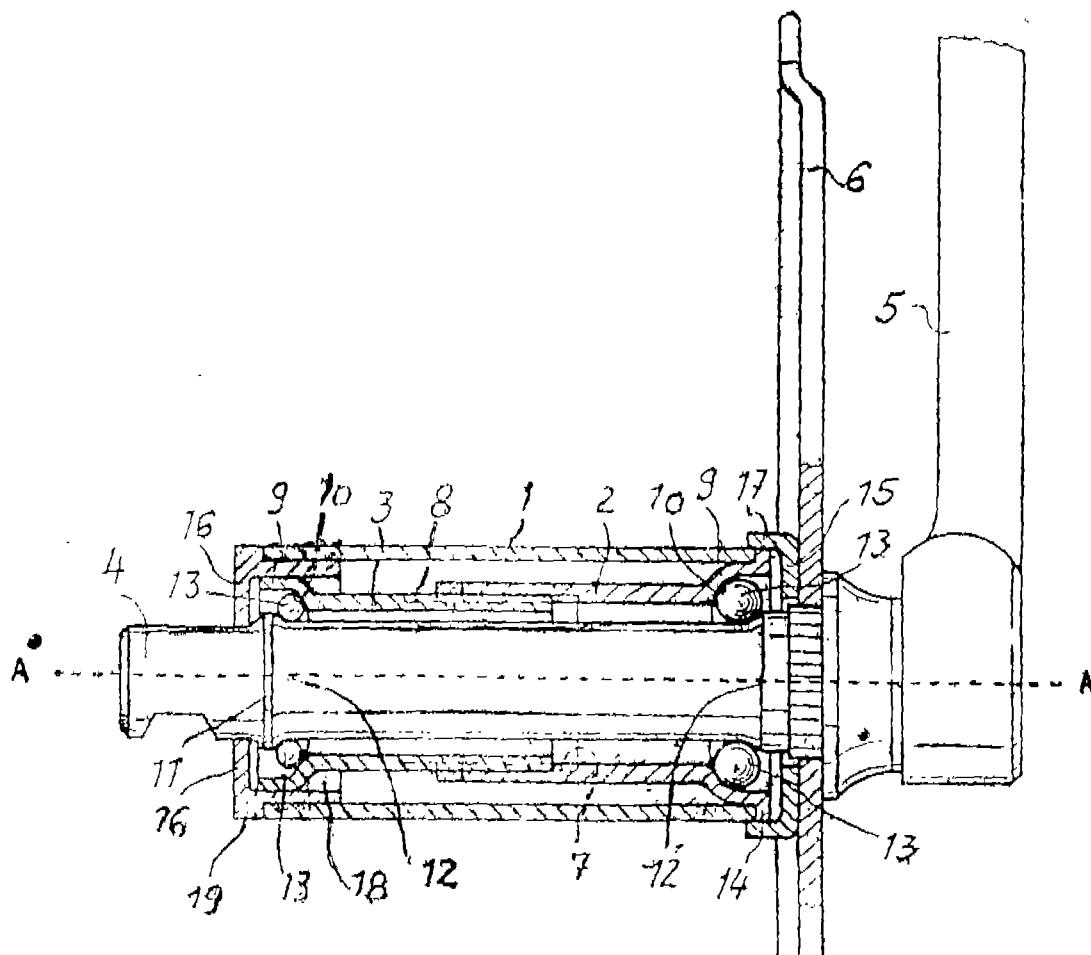
- a frame sleeve extending along and centered on a sleeve axis and having a pair of axially opposite sleeve ends;
- a pedal shaft extending coaxially through the sleeve, having an end carrying a radially projecting pedal and a sprocket, and having a pair of radially outwardly directed races directed axially outward away from each other, the shaft having a predetermined outer diameter at the races and being of smaller diameter therebetween;
- a bearing tube having an inner tube part with an external thread and an outer tube part having an internal thread, the parts being coaxial to the sleeve and shaft with the threads engaged and having

an inner diameter greater than the outer diameter of the shaft, whereby the shaft is inserted axially through the tube parts, the parts having respective outer tube ends flared radially outwardly forming radially inwardly directed tube races directed axially inward toward each other and confronting the respective shaft races;

one of the outer tube ends is formed with a radially outwardly projecting rim bearing axially in one direction directly on the sleeve;

respective annular rows of roller elements engaged between the tube races and the respective shaft races; and

respective and caps snugly fitting between the shaft, tube, and sleeve and axially closing the tube and sleeve around the shaft.



Compl. specn. 18 pages

Drg. 2 sheets

Int. Cl.¹ : B 24 B 9/16

164400

A METHOD AND AN APPARATUS FOR MAKING A GEMSTONE OR THE LIKE.

Applicant : GERSAN ESTABLISHMENT, OF STAEDTLE 36, 9490, VADUZ, LIECHTENSTEIN. A LIECHTENSTEIN COMPANY.

Inventor : ANDREW DAVID GARRY STEWART.

Application No. 254/Mas/85 filed 17st April 1985.

Convention dated 3rd April 1983 (No. 8408544; Great Britain).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

17 Claims

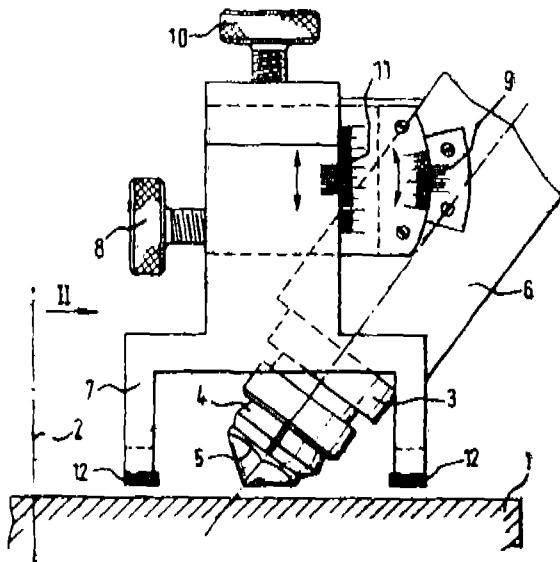
A method of making a gemstone or the like with worked facets as herein defined using a rotating working member, comprising :

the steps of providing a stone holder and at least one sensor adjacent the holder and fixed with respect to the holder, which sensor responds to a non-contact electromagnetic effect of the working member on the sensor;

securing the unworked gemstone or the like in the stone holder;

fixing the said stone holder or the like to the rotating working member and thereby forming a facet on the stone or the like;

sensing the proximity of the sensor to the working member while continuing to work the facet, to thereby determine when the facet has been worked as desired and discontinuing working the facet.



Compl. specn. 14 pages

Drg. 1 sheet

ASS : 116-F

164401

.. Cl. : B 66 b 17/00.

AUTOMATIC MINING CAGE ARRESTING DEVICE.

Applicant & Inventor : SUNIL DAS GUPTA OF B-10 VAISHALI TEACHERS COLONY, DURGAPUR, WEST BENGAL, INDIA.

Application No. 316/Cal/85 filed April 26, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims

An automatic mining cage arresting device consisting of one or more cage arrester or cage catcher on each side of H.G.F. each arrester or catcher comprising a latch box containing one or more spring loaded latches in it and a latch box guide channel for fixing the latch box, one or more sling rods to hold the latch boxes in position in the said latch box guide channel.

Compl. specn. 6 pages

Drg. 4 sheets

CLASS : 9-D; 108-C₃

164402

Int. Cl. : C 21 c 1/10.

PROCESS FOR THE PRODUCTION OF CAST IRON WITH SPHEROIDAL GRAPHITE.

Applicant : GEORG FISCHER AKTIENGESELLSCHAFT, OF CH-8201 SCHAFFHAUSEN, SWITZERLAND.

Inventors : 1. BRANDENBERGER URS, 2. HENYCH IVO, 3. HORNUNG KLAUS, 4. MENK WERNER.

Application No. 491/Cal/85 filed July 1, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

9 Claims

A process for the production of cast iron containing spheroidal graphite, comprising adding metallic magnesium to a pool of molten iron, having sulfur therein to form molten cast iron containing spheroidal graphite and a slag containing magnesium sulphide and thereafter characterised by adding a sulfur stabilizing agent to said slag to convert said magnesium sulphide in said slag to a thermodynamically more stable sulphide compound, whereby resulphurization of said cast iron is prevented.

Compl. specn. 9 pages

Drg. Nil

Int. Cl. : A 61 k 7/00

164403

PROCESS FOR PREPARING A SUNSCREEN COMPOSITION.

Applicant : REVOLN, INC., AT 767 FIFTH AVENUE, NEW YORK, NEW YORK, U.S.A.

Inventors : 1. JOSEPH P. CIAUDELLI, 2. ELIZABETH BRAND.

Application No. 154/Cal/86 filed March 3, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

10 Claims

A process for preparing a sunscreen composition which comprises combining an effective amount of a water miscible sunscreen agent such as herein described with a mousse base or concentrate and optionally one or more of the following ingredients :

- (a) a nonionic surfactant/stabilizer;
- (b) a cosmetically acceptable alcohol;
- (c) a water soluble plasticizer;

wherein said mousse base or concentrate comprises :

a cationic surfactant substantive to hair and a nonionic film-former which in combination with a nonionic surfactant produces foam in the composition and upon application to hair forms a coating thereon.

Compl. specn. 21 pages.

Drg. 1 sheet

Int. Cl. : C 21 b 11/00

164404

METHOD AND APPARATUS FOR PRODUCING MOLTEN IRON USING COAL.

Applicant : MIDREX INTERNATIONAL B.V., ROTTERDAM, OF WILFRIEDSTRASSE 12, 8032 ZURICH, SWITZERLAND.

Inventors : 1. FRANK VIRGIL SUMMERS, 2. JOHN COMBS SCARLETT, 3. DAVID CHARLES MEISSNER, 4. GLENN EDWARD HOFFMAN.

Application No. 616/Cal/86 filed August 12, 1986.

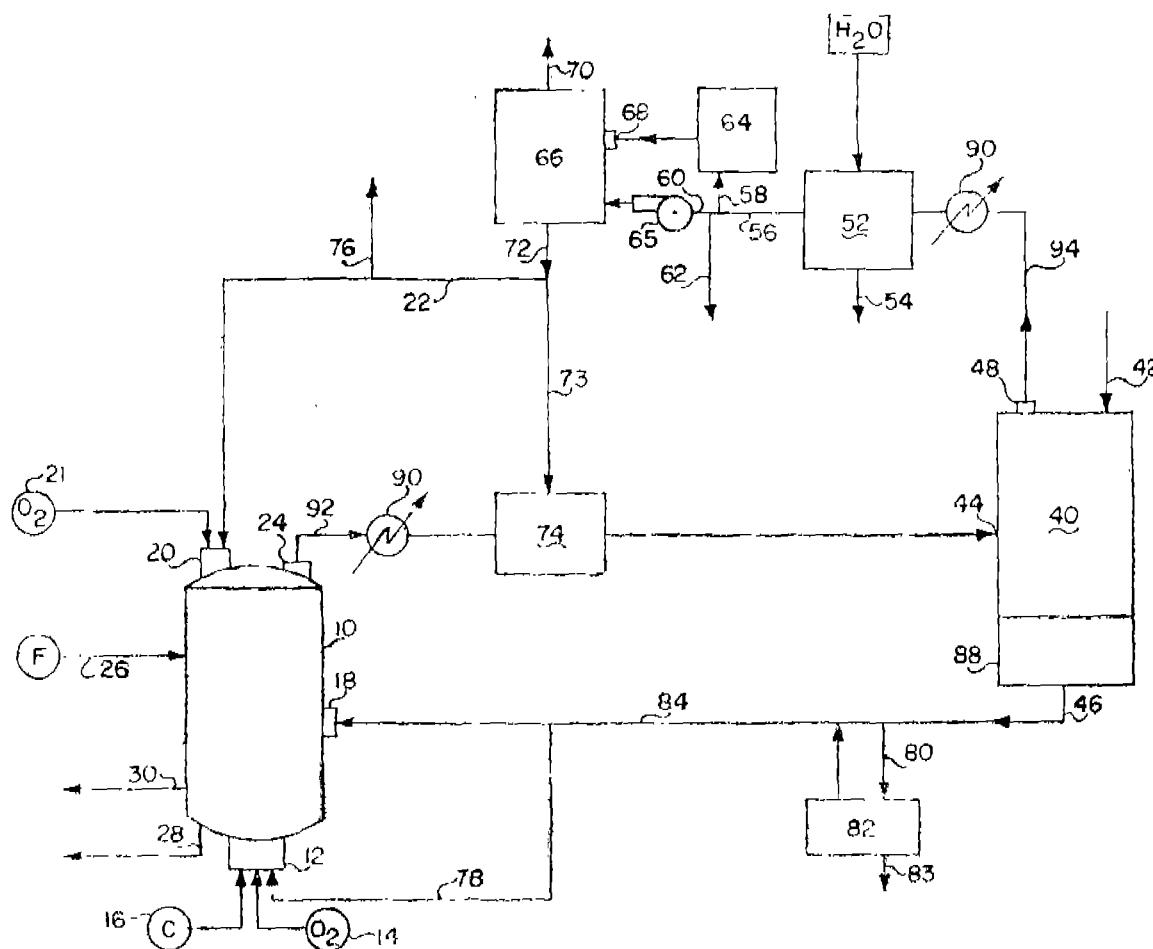
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

15 Claims

Apparatus for producing molten iron comprising :

- (a) a molten iron bath gasifier-melter;
- (b) an associated direct reduction shaft furnace having a metal oxide feed means at the top thereof and a metallized product removal means at the bottom thereof;
- (c) means for introducing particulate coal and oxygen to the bottom of said gasifier-melter;
- (d) inlet means for introducing direct reduced iron to said gasifier-melter;
- (e) a gasification gas outlet at the top of said gasifier-melter;
- (f) a first conduit communicating with said gasification gas outlet and a reducing gas inlet to said direct reduction shaft furnace;

- (g) a gas mixer in said first conduit;
- (h) a scrubber-cooler associated with direct reduction shaft furnace to cool/scrub the top gas;
- (i) a reacted top gas outlet at the top of said shaft furnace;
- (j) a second conduit communicating with said scrubber-cooler and said reacted top gas outlet;
- (k) a carbon dioxide removal system;
- (l) a third conduit communicating with said scrubber-cooler and said carbon dioxide removal system;
- (m) means for introducing oxygen into said gasifier-melter above the surface of the bath therein; and
- (n) a fourth conduit communicating with said carbon dioxide removal system and said gas mixer.



Compl. specn. 15 pages

Drg. 1 sheet

Int. Cl. : A 23 f 3/00

164405

Inventor : 1. ARUP BOSE.

A MACHINE FOR PROCESSING GREEN TEA LEAVES.

Applicant : SANJAY BOSE OF RABCON ENGINEERING (SSI UNIT), 3A CAMAC STREET, CALCUTTA-700016, INDIA.

Application No. 742/Cal/86 filed October 13, 1986.

Complete Specification left on 6th October, 1987.

Appropriate office for opposition proceedings Rule 4, Patents Rules, 1972, Patent Office, Calcutta.

18 Claims

A machine processing green-tea leaves comprising : a tubular metallic body having secured to the inner surface thereof a plurality of raised beads, known as 'resistors', which are distributed in a predetermined manner;

a metallic shaft mounted substantially concentrically and being adapted to rotate freely inside said tubular body, said shaft having secured thereto along a part of the length thereof at least one each of first section containing a spirally mounted vane on its surface to act as a worm conveyor for moving the green tea leaves (fed into said tubular body) towards the end thereof wherefrom the tea processed by the machine is discharged, second section having fixed thereon a plurality of raised beads, known as 'resistors', distributed in a predetermined manner and third section having fitted onto the surface thereof a plurality of

elongate rib-like structures which are disposed substantially parallel to one another making a predetermined angle with the axis of the shaft, the mounting arrangement of said third section being such that it can be dismantled easily for carrying out the necessary repairs and maintenance thereof;

means for rotating the shaft at a predetermined speed; means for feeding green tea leaves into said tubular body at a predetermined rate;

means for discharging the processed tea from said tubular body at a predetermined rate;

means for discharging the processed tea from said tubular body at a predetermined rate; and

means for fixing the machine onto a gable which is adapted to be mounted on a skid base frame.

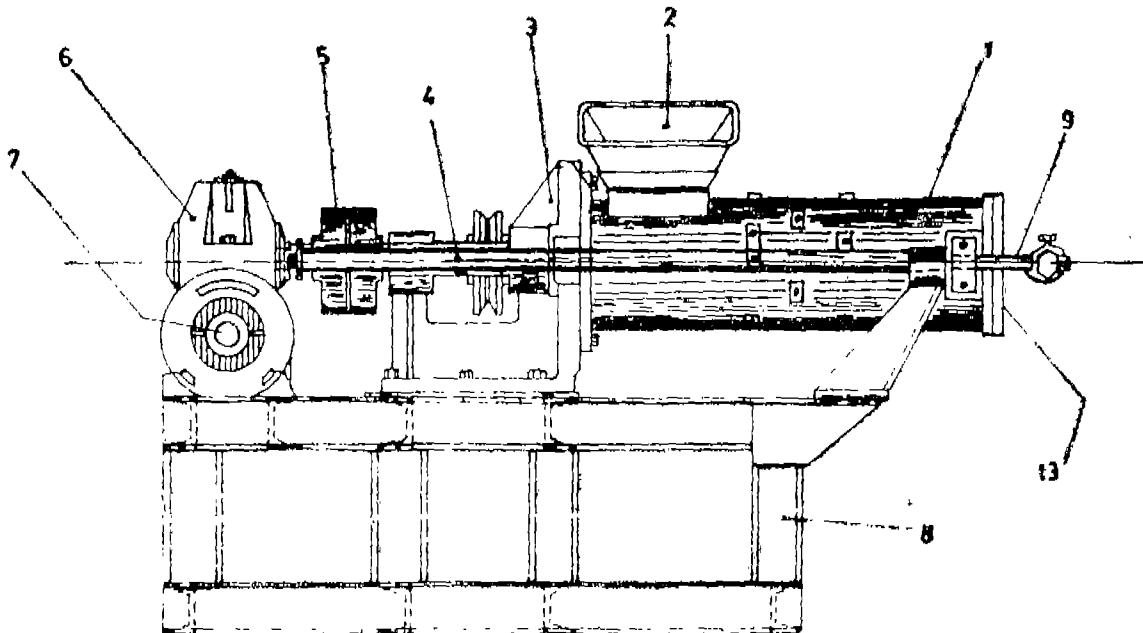


Fig. 1

Compl. specn. 16 pages

Dig. 2 sheets

Int. Cl.¹ : C 10 G 71/04

164406

A PROCESS FOR THE PREPARATION OF HIGH-VISCOSITY-INDEX LUBRICATING OIL.

Applicant : SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., OF CAREL VAN BYLANDT LAAN 30, 2596 HR THE HAGUE, THE NETHERLANDS, A COMPANY ORGANIZED UNDER THE LAWS OF THE NETHERLANDS.

Inventor : SWAN TIONG SIE.

Application No. 233/Mas/85 filed March 27, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

11 Claims. No drawing

A process for the preparation of a high-viscosity-index lubricating oil, characterized in that a mixture of carbon

monoxide and hydrogen is converted into a mixture of hydrocarbons substantially consisting of linear paraffins, by contacting it at a temperature of 125–350°C and pressure of 5–100 bar with a catalyst comprising 3–60 pbw of cobalt and 0.1–100 pbw of at least one other metal chosen from the group formed by zirconium, titanium and chromium per 100 pbw of silica, alumina or silica-alumina carrier, which catalyst has been prepared by kneading and/or impregnation, that from the mixture of paraffins thus prepared a light fraction is separated which consists substantially of C₁₆–C₁₉ paraffins, and that at least part of said light fraction is converted into a product comprising the desired high-viscosity-index lubricating oil by treating it at a temperature of 100–225°C with a peroxide of the general formula R–O–O–R¹, wherein R and R¹ represent alkyl, aryl or acyl moieties.

Compl. specn. 20 pages.

Int. Cl.⁴: B 01 D 3/06

164407

APPARATUS FOR MANUFACTURING A CONCENTRATED DISTILLATE BY THE VAPORIZATION AND DISTILLATION OF A LIQUID REACTION MIXTURE.

Applicant : KEMIRA OY, A FINNISH JOINT STOCK COMPANY OF MALMINKATU 20, SF-00100, HELSINKI, FINLAND.

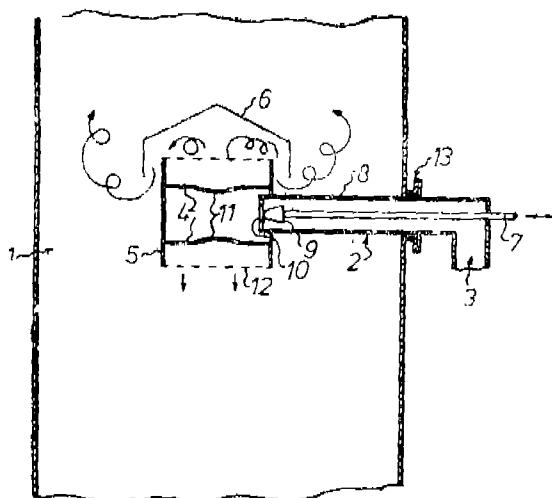
Inventors : (1) YRJO SANTAHOLMA, (2) KARI HELAMAKI, (3) ILKKA POLLARI, (4) JOUKO ARVOLA.

Application No. 241/Mas/85 filed March 28, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

4 Claims

An apparatus for the flash vaporization and distillation of a liquid reaction mixture at super-atmospheric pressure, comprising a distillation reactor (1), a flash valve (2), for the flash vaporization of the liquid reaction-mixture (3) at superatmospheric pressure, and means for directing the unvaporized liquid into the distillation reactor (1), wherein the flash valve (2) extends inside the distillation reactor (1) and that means are fitted in front of the flash valve (2) for directing the unvaporized liquid into the distillation reactor in order to separate the liquid drops from the produced vapor and to direct them downwards.



Compl. specn. 7 pages

Drg. 1 sheet

Int. Cl.⁴: B 67 B 3/14

164408

CLOSURES FOR CONTAINERS.

Applicant : METAL BOX P.L.C. A BRITISH COMPANY OF QUEENS HOUSE FORBURY ROAD, READING RG1 3JH, BERKSHIRE, ENGLAND.

Inventor : ANDRZEJ JAN JOZEF JUTY.

Application No. 253/Mas/85 filed 1st April 1985.

Convention dated 8th May 1984 (No. 8411620: United Kingdom).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

10 Claims

A closure, for a container of the kind having a pouring aperture and a venting aperture in one end of the container, said closure being moulded in one piece of plastics material and comprising respective annular collar portions adapted to be fitted in an airtight manner within the said apertures, and respective plugs each attached by a rupturable section of the plastics material to the mouth of its annular collar portion to seal the respective aperture, each plug being shaped after breaking of the rupturable section from the aperture to permit the plug to be forced back into the collar portion to re-seal the aperture, the two plugs being connected to one another by a connecting member which is flexibly connected to one of the collar portions to retain the plugs after opening of the apertures.

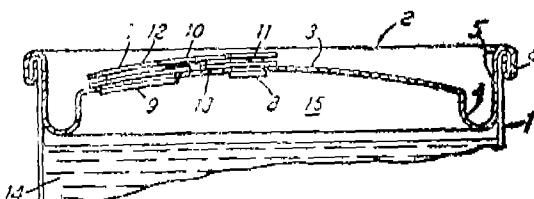


Fig. 1

Compl. specn. 15 pages

Drg. 7 sheets

Int. Cl.⁴: F 16 L 11/12

164409

HEAT-RECOVERABLE TUBULAR COMPOSITE ARTICLE AND A METHOD OF PRODUCING THE SAME.

Applicant : RAYCHEM CORPORATION, A COMPANY ORGANISED ACCORDING TO THE LAWS OF THE STATE OF CALIFORNIA, U.S.A. OF 300 CONSTITUTION DRIVE, MENLO PARK, CALIFORNIA 94025, U.S.A.

Inventor : WILLIEM MARTIN VERSTEEGH; LESTER TUNGNAN TOY.

Application No. 270/Mas/85 filed 6th April 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

13 Claims

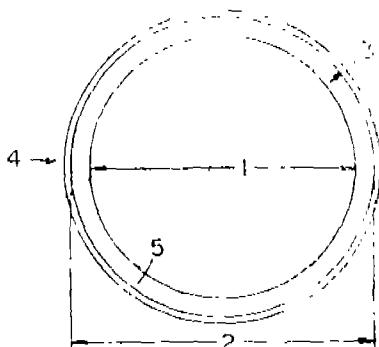
A heat-recoverable tubular composite article comprising:

(a) An inner layer comprising a crosslinked elastomeric polymeric material such as herein described having a modulus of 100% elongation at 20°C of 40 to 900 pounds per square inch; and

(b) an outer layer comprising a thermoplastic material such as herein described having a 20% secant modulus at 20°C of 5,000 to 100,000 pounds per square inch; said composite article being formed by coextrusion, having a direct bond between said layers with a peel strength of at least 6 pounds per linear inch, and being in a radially expanded configuration, said thermoplastic outer layer being capable of retaining the elastomeric inner layer in an expanded configuration at ambient temperature and incapable of retaining the elastomeric layer in an expanded configuration at an elevated temperature thereby permitting both layers of the

composite article to recover, when heated, to or toward its unexpanded configuration.

Inventor : SERGIO MENICATTI; CESARE MIOLA; FRANCO GRANELLI.



Compl. specn. 24 pages

Drg. 1 sheet

Application No. 293/Mas/85 filed 17 Apr 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

5 Claims

An improved apparatus for the production of urea wherein the decomposers and/or condensers are of the type provided with tube nest wherein the improvement comprises in decomposer(s) of the carbamate and/or the condensers having an extratube structure (for the portion in contact with the process fluids) of urea grade steel, and the tubes of the tube nest are constituted by a stainless-steel tubes internally lined with a thin zirconium foil not welded to said tubes.

Compl. specn. 9 pages

Drg. 1 sheet

Int. Cl.4 : C 07 C 126/02

164410

AN IMPROVED APPARATUS FOR THE PRODUCTION OF UREA.

Applicant : SNAMPROGETTI S.p.A., A COMPANY ORGANISED UNDER THE LAW OF THE ITALIAN REPUBLIC, OF CORSO VENEZIA 16, MILAN, ITALY.

R. A. ACHARYA
Controller General of Patents, Designs
and Trade Marks

